Wyse® X class™

Secure, accessible cloud client computing has arrived.

WYSE

THE GLOBAL LEADER IN
CLOUD CLIENT COMPUTING

Wyse X class: **All you need to know. Here.**

Introducing the Wyse X class

Now you can get all of the security you crave – with all the access, flexibility and performance you need. Wherever you choose to work.

Wyse X class comes in two neat profiles. Both of them ideal for today's busy and increasingly demanding mobile workforce: There's the Wyse X class c family with an 11" LED backlit display. It features a choice of Wyse Enhanced SUSE Linux, Windows Embedded Standard 2009 & 7 operating systems and Wyse WSM for provisioned environments.

And the new next-generation Wyse X class m family mobile thin client powerhouse. It features Wyse Enhanced SUSE Linux, Windows Embedded Standard 2009 and Windows Embedded Standard 7, a crisp 14" LED backlit display and a dual Core high performance and graphics-combined CPU – delivering excellent HD multimedia capabilities, as well as advanced SuperSpeed USB 3.0 connectivity.

Altogether the Wyse X class puts secure, high performance, mobile cloud computing into the hands of those users who need it most.

Here's the full range:

Wyse X50c

The security of Wyse Enhanced SUSE Linux in a compact mobile thin client

Wyse X90cw

Small form factor, mobile thin client with Microsoft Windows Embedded Standard 2009.

Wyse X90c7

Harnesses the rich user experience of new Microsoft Windows Embedded Standard 7 in a compact mobile form factor.

RemoteFX Enabled

Wyse X00c

All the benefits and power of a Wyse desktop cloud PC in compact mobile form with Wyse WSM.

Wyse X50m

Highest performing dual core mobile client with all the security, flexibility, and market-leading usability of Wyse Enhanced SUSE Linux Enterprise.

Wyse X90mw

New 14" next generation dual core high-performance mobile thin client featuring Windows Embedded Standard 2009.

Wyse X90m7

New 14" next generation dual core high-performance mobile thin client featuring Windows Embedded Standard 7.

RemoteFX Enabled

Wyse X00m

Highest-performing dual core mobile cloud PC for Wyse WSM.

Features Wyse X class

Wyse X class mobile thin clients feature all the benefits of the Wyse Cloud Client Computing range - including the absence of hard drives. A vital benefit for mobile workers who regularly work with sensitive data in insecure environments. Equipped with a Wyse X class they remain both productive and mobile – with all their data safely stored and accessed from secure virtual desktop servers – eliminating the risk of data loss from stolen or mislaid laptops.

Performance

X class c family Connectivity

X class m family Connectivity

Green

EarthSmart Computing™

Thin Client Management

Wyse WDM™

Cloud PC Provisioning

Wyse WSM™

User Experience Optimization

User Experience Acceleration

Wyse Enhanced SUSE Linux

suse

Microsoft Windows Embedded Standard 2009

Windows Embedded Standard 2009

Microsoft Windows Embedded Standard 7

Windows Embedded Standard 7

Take a tour of the Wyse X class

Performance

High performance and security on the move

The Wyse X class mobile cloud clients feature high-performance energy conserving processors: The Intel Atom Z520 in the Wyse X class c family and AMD G-Series T-56N Dual Core processor in the X class m family, giving your mobile users all the processing power and flexibility they need including rich multimedia playback.

Both feature bright LED backlit displays delivering excellent on-screen performance for graphics applications and multimedia presentations.

No hard drives. No worries.

Their hard drive-free design contributes to a far longer lifespan than other comparative laptops. And of course no hard drive means no data whatsoever is lost or compromised if a Wyse X class is stolen or mislaid.

Finally, everything's encased in slim, robust designs ideal for today's hard working and pressurized mobile workers.

Wyse X class c family

Intel Atom Z520 1.33GHz processor

Intel's smallest and lowest power processor to date, the Intel® Atom™ processor has been specifically designed for the new wave of compact, lightweight, high performance mobile cloud clients like the Wyse X class c family.

Wyse X class m family

AMD G-Series T-56N Dual Core processor

The AMD Embedded G-Series platform is the world's first low power processor and advanced GPU that's integrated into a single embedded Accelerated Processing Unit (APU).

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Connectivity Wyse X class c family

Wyse X50c, X90cw and X90c7 mobile thin clients and X00c mobile cloud PC

Built-in 1.3 Mega Pixel Camera and Microphone*

11" LED backlit display

Well connected

Integrated wireless 802.11 b/g/n

One VGA-type video output

Two USB 2.0 ports

Audio In: 1/8-inch mini jack, 8 bit stereo microphone

Audio Out: 1/8-inch mini jack, full 16 bit stereo

Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage

One USB 2.0 port

10/100 Base-T Ethernet port

Kensington Lock Slot

* Camera and bluetooth option are currently not supported on X50c.

Continue tour

Connectivity Wyse X class m family

Wyse X50m, X90mw, X90m7 mobile thin clients and X00m mobile cloud PC

Well connected

Built-in WiFi 802.11 ab/g/n
Kensington lock slot
Gigabit Ethernet port
One USB 2.0 port
Audio In: 1/8-inch mini jack, 8 bit stereo microphone
Audio Out: 1/8-inch mini jack, 16 bit stereo
Media card reader
Smart Card reader (factory option)

Continue tour

Desktop computing without compromise

Wyse X class c family **Wyse X class m family**

That's Wyse EarthSmart™ Computing

Through our EarthSmart Computing initiative we are committed to helping organizations implement a greener computing strategy - one that delivers a more efficient and productive computing experience for your users with a positive effect on energy wastage, heat and carbon emissions.

Green Power

All Wyse X class mobile cloud clients pack a considerable punch with their green credentials. From reduced manufacturing impact and end-of-life recycling waste, to as little as 18 watts energy consumption, deploying Wyse X class mobile cloud clients to your mobile and remotely based workers will enable your organization to achieve a lighter carbon footprint.

More Information

Download carbon calculators, fact sheets and white papers from here:
www.wyse.com/green

Continue tour

Thin Client Management Wyse Device Manager

Wyse Device Manager (WDM) addresses key management requirements for deploying powerful thin clients. With its centralized management and administration WDM helps IT departments deliver more effective remote thin client support while minimizing end user downtime.

Security is assured with HTTPS based imaging, updates and downloads.

WDM delivers organization-wide benefits:

Operations	Centralized management. Collect and organize asset information.
Administration	Health status reports. Automated client settings. Update client firmware and add applications.
End User IT Costs	Easier more effective remote support. Create custom scripts and packages.
Minimize downtime	Restart or reset thin clients in less than a minute. Enforce policies. Minimize user errors.

At a glance.

Security	HTTPS Based Imaging / Updates Fully Encrypted Network Traffic Delegated Admin Access (MS AD) Support
No-Hassle Deployment	Complete Device Imaging / Patching / Updates Bandwidth Throttling for Efficiency / Reliability Software Updates and Add-ons
Device Administration and Monitoring	Device Health Status / Reporting Remote Shadowing / Control Default Device Configuration
Reduce End User IT Costs	Reduce energy consumption with scheduled up/down times
Scalability	Distributed Architecture Microsoft SQL Database Support Multiple Remote Repository Support
Complete Asset Visibility	Automated device discovery Detailed Hardware Asset information Installed Software Asset information

Wyse WDM™

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Cloud PC Provisioning Wyse WSM

Enterprise computing from the cloud is here. Whatever you want. Wherever you need it.

That's the thinking behind Wyse WSM. It's a dynamic on-demand streamed computing environment where everyone gets their preferred operating systems, applications, user data and documents: Wherever they are and whenever they need them.

And Wyse WSM goes beyond the traditional VDI model too - with full support for mobile workers and remote branch offices. Wyse WSM effectively changes the rules on what's possible and opens up the benefits of high performance desktops to enterprise users: Wherever they are.

Better than a PC could ever be.

With Wyse WSM users - such as those in the financial or retail industries - are given a fresh computer with their chosen PC operating system, applications and files all preloaded and ready-to-go, every time they sit down and start-up their powerful desktop devices known as Wyse 'cloud PCs'.

Wyse WSM™

Wyse cloud PCs feature powerful processors that enable them to run full PC operating systems and applications locally, while keeping their documents and data secure on central Wyse WSM servers. Enabling existing PC users to continue to use all their familiar operating systems and applications seamlessly - but with greater reliability and better overall performance than a full PC - with the result that many users don't even realize they're using a cloud PC.

And - better still, Wyse WSM features a highly secure, robust and resilient network design that's ideal for remote offices and mission critical deployments such as the defence industry.

With everything managed, updated, configured remotely and securely, Wyse WSM is everything a PC promises. Minus the headaches.

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wyse.com

User Experience Optimization Wyse TCX™ Suite

with Collaborative Processing Architecture™

Wyse TCX delivers an amazing user experience in one software suite.

Wyse TCX Suite of virtualization software enriches the user experience by removing the limitations previously associated with thin clients. It enhances, not replaces, key protocols like ICA/HDX and RDP by adding key features to make each more valuable.

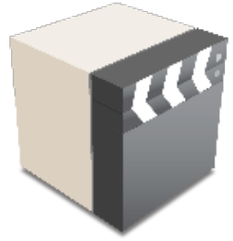
Multi-display

Ensures application windows and dialog boxes are multi-monitor aware when using more than one monitor.

USB Virtualization

Enables plug and play peripheral support for virtual desktop environments.

- Redirect and use local USB devices in virtual desktops.
- Deploy virtual desktops to knowledge workers with special device access needs.
- Enable a broad set of USB peripherals including webcams and headsets.



Multimedia acceleration

Streamlines the delivery of video and audio content to the local client for a rich user experience within a thin client computing architecture.

- Accelerates Mpeg1, Mpeg2, WMV, Mpeg4 Part 2, AC3, AAC, MP3, WAV, WMA media types.
- Collaborative Processing Architecture enhances server scalability, and network utilization by off-loading multimedia rendering to the client.

Flash acceleration

Flash acceleration helps thin client users to experience improved Flash video performance. While the Flash player continues to run server-side, the resulting images are transcoded and redirected to the client for fast rendering. The technology allows for greater control of frame rate and compression and supports enhanced playback of YouTube-style flash videos in Internet Explorer.

Bi-directional sound

Enables bi-directional audio in virtual desktop environments, enabling solutions such as VOIP, digital dictation or voice recognition to be deployed.

Continue tour

Virtualization Software Wyse Virtual Desktop Accelerator

Removing the barriers of network latency

Wyse Virtual Desktop Accelerator (VDA) enables virtualized desktop and thin computing environments to be deployed to areas where network latency has, to date, presented operational barriers. Now, with Wyse VDA, more users can receive the full benefits of Wyse thin computing – with the best PC experience over virtualized desktops.

Wyse VDA is a software-only solution for Wyse thin clients and supported PCs that delivers the best user experience for the allocated network bandwidth by neutralizing the effects of network latency and packet loss. Making 'thin' suitable for more remote-site, branch, or field-based users.

Wyse VDA works with instead of replacing existing RDP and ICA protocols, accelerating them by up to 20 times on networks faced with latencies up to and beyond 300ms, and at least 768kbps bandwidth.

At a glance features.

- Software-only acceleration of virtual desktops and applications
- Accelerates existing Citrix ICA and Microsoft RDP protocols
- Works on WANs and 'fat, long pipes'
- Accelerates connections to Citrix XenApp, Citrix XenDesktop, VMware View and Microsoft Terminal Server and Microsoft Hyper-V VDI
- Enhances Wyse TCX software suite functionality across wide-area networks
- Enables Wyse Collaborative Processing Architecture across wide-area networks
- Administrator console provides control of maximum bandwidth per connection
- Leverages built-in security of underlying protocols (128-bit encryption for RDP and ICA).

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Operating Systems Wyse enhanced SUSE Linux platform

Wyse enhanced SUSE Linux Enterprise is a simple, secure, and easy to manage platform designed for customers looking for flexibility and support of the latest protocols (ICA, PCoIP, RDP, etc) without the need for a Windows-based thin client.

Simple "Hands-Off" Management.

Deploying, managing, and updating Wyse enhanced SUSE Linux is easier than any other Thin-Linux distribution, Period. Utilizing Wyse's proven automatic update and configuration approach, management tasks can be handled centrally and easily without any management software required.

Updating 1 or 1,000 thin clients is as simple as dragging and dropping a file into a folder. For customers that desire a little more hands-on approach (such as asset tracking, reporting, etc) then integration with Wyse Device Manager is built-in.

Security

Wyse enhanced SUSE Linux is designed with security in mind. IT Managers are able to provide a locked-down experience, smartcard login to virtual environments, VPN connectivity, and leverage a read-only file system that protects against data loss, theft and virus attacks.

Enterprise-quality Linux optimized by Wyse

Wyse enhanced SUSE Linux is the only enterprise-quality Linux platform optimized for thin computing, created by combining the security and flexibility of SUSE Linux with Wyse's cloud client computing leadership and innovation in user experience and simplified management. Additionally, SUSE Linux Enterprise is the only Linux platform to protect customers from potential IP infringement suits as it is jointly indemnified by SUSE Linux and Microsoft.

Flexible, Multi-Protocol Support

Being built from a standard enterprise-quality Linux distribution means the Wyse enhanced SUSE Linux supports a wide range of protocols and infrastructures straight-out-of-the-box including Citrix, Microsoft, VMware, Ericom PowerTerm Interconnect Terminal Emulation and Ericom PowerTerm Webconnect – allowing you to mix-and-match connections from a single image.

That's Wyse enhanced SUSE Linux
The only enterprise-quality Linux platform optimized by Wyse for thin client computing.

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Operating Systems Microsoft Windows Embedded Standard 2009

Running Windows Embedded Standard (WES) on Wyse thin clients gives IT departments the ability to deploy fully functional desktop clients with better manageability and significantly lower total cost of ownership than personal computers.

Wyse WES 2009-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers, with the inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.

Full support is provided for RDP 7.0, Citrix ICA 11.2, VMware View 4.0.1, Ericom PowerTerm WebConnect, Ericom PowerTerm InterConnect Terminal Emulation and Internet Explorer 8. In addition, all Wyse Windows Embedded Standard 2009 thin clients include support of Windows Embedded Device Manager (WEDM), allowing the device to be managed by Microsoft's central management system for Windows-based devices, System Center Configuration Manager (SCCM)*.

Secure write-protected thin client desktops.

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the files, folder and/or entire volumes from accidental changes or user customization. On rebooting, the thin client simply returns to its original state thus preventing any possible damaging modification either from users or malware.

Windows Embedded Gold Partner

Wyse customized image support

Wyse technicians are prepared to help you customize Windows Embedded Standard 2009 to your exact requirements in order to create custom-built images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

Contact your Wyse Partner for further details.

*WES 2009 support for SCCM-WEDM will be available in April 2012.

Windows Embedded Standard 2009

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Operating Systems Microsoft Windows Embedded Standard 7

New Windows Embedded Standard 7 (WES 7) delivers a wealth of enhanced deployment, user experience and management benefits to Wyse desktops, mobiles and thin clients deployed across an organization's virtualized network.

Richer user experience.

Wherever they are - deskbound or mobile - with Microsoft Windows Embedded Standard 7 your users can benefit from the rich user experience of the Aero interface and the power, familiarity and reliability of the Windows 7 operating system in a highly customizable and componentized form.

Full support is provided for Remote Desktop Protocol (RDP) 7.1 with RemoteFX technology to provide seamless connectivity to Windows Server 2008 R2 and virtual desktop infrastructure scenarios. The Wyse-enhanced WES7 platforms include additional features supporting the latest Citrix Online Plug-in and VMware View 4.6 to fit the needs of your most sophisticated users and making it an optimum OS for organizations wanting broad support for Cloud computing and desktop virtualization. Citrix Online Plug-in provides the HDX user experience and View 4.6 provides localization and Virtual Printing.

The platform also features additional Windows technology innovations to drive rich, immersive user experiences, including Internet Explorer 8. There's full support and inbuilt flexibility too, to add and support a host of desktop peripherals with permission from the IT administrator.

Windows® Embedded Gold Partner

In addition, all Wyse Windows Embedded Standard 7 thin clients include support of Windows Embedded Device Manager (WEDM), allowing the device to be managed by Microsoft's central management system for Windows-based devices, System Center Configuration Manager (SCCM).

Easier to manage and deploy.

Now, with WES7, deploying 32-bit capable thin clients is easier and more manageable than ever before and reflects the direct working relationship between Wyse and Microsoft. The support for Domain Join and group policies through Active Directory, help with management and integration of thin clients into existing desktop management infrastructures.

Windows® Embedded Standard 7

Wyse Configuration Manager delivers unprecedented simplicity to the management of virtual desktops by allowing IT departments to auto-configure thin clients running Wyse-enhanced Windows Embedded Standard. By automating the deployment of WES thin clients throughout a private cloud WCM offers multiple benefits to organizations: reducing the need to do imaging, deploying custom images and faster configuration updates. Client devices are updated with the latest configuration settings for VDI connections (RDP, Citrix, VMware View), device settings and OS configuration automatically when devices startup.

Wyse Device Manager (WDM) addresses key management requirements. With its centralized management and administration, WDM helps IT departments deliver more effective remote thin client support while minimizing end user downtime. In addition, the Wyse USB Firmware Tool allows IT and Customer Service staff to quickly and easily image the devices directly.

Enterprise-wide consistency.

Wyse Embedded Standard 7 and Wyse provide the ideal, cost effective opportunity to deploy a consistent, high performance operating system across Wyse cloud clients.

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Technical Wyse X class

The Wyse X class family features Wyse Enhanced SUSE Linux Enterprise, Windows Embedded Standard 2009, Windows Embedded Standard 7 operating systems and Wyse WSM provisioning software.

Learn more.
Simply click the icons below.

Wyse X class Specifications c family

Wyse X class Specifications m family

Cloud PC Provisioning

Wyse WSM™

Wyse Enhanced SUSE Linux

suse

Microsoft Windows Embedded Standard 2009

Windows Embedded Standard 2009

Microsoft Windows Embedded Standard 7

Windows Embedded Standard 7

Hardware specifications

Wyse X class c family: Wyse X50c, X90cw and X90c7 mobile thin clients and X00c mobile cloud PC

Processors	Intel Atom Z520 1.33GHz
Memory	X50c: Wyse Enhanced SUSE Linux: 1GB Flash / 1GB RAM X90cw: Windows Embedded Standard 2009: 2GB Flash / 1GB RAM and up to 4GB Flash / 2GB RAM X90c7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM X00c for WSM: 160GB HDD / 2GB RAM
I/O peripheral support	One VGA port 15-pin D-sub for external monitor Three USB 2.0 ports Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage One Mic In / One Line Out Built-in 1.3 M Pixel Camera and Microphone 3G capable
Keyboard	US, US international, UK, French, German
Pointing Device	Touchpad
Networking	10/100Base-T Fast Ethernet (RJ-45) Integrated wireless 802.11 b/g/n
Factory options	Bluetooth for connection to selected mobile phones*
Display	11.6" WXGA 1366 x 768 LED backlight
Audio	Output: 1/8-inch mini jack, full 16 bit stereo Input: 1/8-inch mini jack, 8 bit microphone
Speakers	Two internal stereo speakers

Physical characteristics	Width: 11.42 inches (290mm) Depth: 8.23 inches (209mm) Height: 1.39-1.25 inches (26.4~31.7mm)
Weight	3.2 lbs. (1.45kg) with battery
Device Security	Built-in Kensington security slot (cable sold separately)
Keyboard and mouse	Keyboard / Touchpad
Keyboard layouts supplied	French, German, Italian, Norwegian, Spanish, Swedish, UK, US, US international
Battery	6-cell Li-Ion battery (5200mAh) Up to 8 hours autonomy
Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star V5.0 compliant power supply Average power usage with under 15 Watts 19V/65W AC Adapter
Temperature Range	50° to 104° F (10° to 40° C)
Humidity	20% to 80% condensing 10% to 95% non-condensing
Safety Certifications	UL/IEC 60950-1, TUV EMC: CE (EN 55022, EN 55024), FCC 15B) FCC (Part 15C), CE (EN 300 328, EN 301 489), Richtlinie 1999/5/EC RoHS, WEEE
Warranty	One-year limited warranty, 6 months battery warranty Visit our web site for WyseChoice extensions and upgrades

* Camera and bluetooth option are currently not supported on X50c.

Hardware specifications

X class m family: Wyse X50m, X90mw, X90m7 mobile thin clients and X00m mobile cloud PC

Processor	Dual core AMD G-T56N 1.65 GHz Processor with AMD Radeon™ HD 6320 Graphics
Memory	X50m: Wyse Enhanced SUSE Linux: 2GB Flash / 2GB RAM DDR3 1333MHz X90mw: Windows Embedded Standard 2009: 2GB Flash / 2GB RAM DDR3 1333MHz X90m7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM DDR3 1333MHz X00m for WSM: 128GB SSD / 2GB RAM DDR3 1333MHz
I/O peripheral support	One VGA port One DisplayPort One USB 2.0 port and two USB 3.0 ports Media card reader slot for additional storage One Mic In / One Line Out Built-in 1.3 M Pixel Camera and Microphone ExpressCard slot (factory option) 3G/4G Capable (PCIe slot available) Smart Card Reader (Factory installed Configuration Option)
Networking	10/100/1000 Mbps Gigabit Ethernet Integrated wireless 802.11 a/b/g/n Dual Band (2.4 Ghz and 5Ghz)
Display	14" WXGA 1366 x 768 LED backlight
Audio	Output: 1/8-inch mini jack, full 16 bit stereo, Digital audio out Input: 1/8-inch mini jack, 8 bit microphone
Speakers	Two internal stereo speakers

AMD Fusion FAMILY OF APUs EMBEDDED TECHNOLOGY

SUPERSPEED USB

Physical characteristics	Width: 9.32 inches (239.2mm) Depth: 13.5 inches (341.6mm) Height: 1.14 inches (28.9-35.5mm)
Weight	4.0lbs (1.83kg)
Device Security	Built-in Kensington security slot (cable sold separately)
Keyboard and mouse	Keyboard / Touchpad
Keyboard layouts supplied	US, US international, UK, French, German
Battery	6-cell Li-Ion battery (5200mAh)
Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star V5.0 compliant power supply 19V/65W AC Adapter
Temperature Range	50° to 104° F (10° to 40° C)
Humidity	20% to 80% condensing 10% to 95% non-condensing
Safety Certifications	UL/IEC 60950-1, TUV EMC: CE (EN 55022, EN 55024), FCC 15B) FCC (Part 15C), CE (EN 300 328, EN 301 489), Richtlinie 1999/5/EC RoHS, WEEE
Warranty	One-year limited warranty, 6 months battery warranty Visit our web site for WyseChoice extensions and upgrades

Software specifications

Wyse WSM

Device Hardware Requirements	Windows XP Pro - Minimum processor speed 800 MHz (1GHz or higher is recommended) - Mind. 256 MB (1GB or higher is recommended) Vista and Windows 7 - Minimum processor speed 1 GHz (1.5GHz or higher is recommended) - Mind. 1 GB (2GB or higher is recommended) - Flash size/local storage – none needed. If the device has flash it can be used as a local cache for offline mode.
Server Requirements	Minimum processor speed 1GHz (3GHz or higher is recommended). Server Operating System: Windows XP Pro SP3, Windows Server 2003, Windows Server 2008 and 2008 R2
Network Requirements	Server Lan Speed = Minimum 100Mbps (1Gbps and up is recommended) Device Lan Speed = Minimum 10Mbps (100 Mbps full duplex is recommended)
Operating Systems Supported	Microsoft Windows XP Microsoft Windows Vista Microsoft Windows 7
Databases supported	Microsoft SQL 2005 and 2008 (Server and Express Editions)
Built-in high Availability	- Database availability using SQL clustering. - Built-in server high availability through WSM Server Grouping feature. - Server to Server Fail-over Capability.
Fast and Easy Installation	- Installing Wyse WSM is simply a matter of running a single, graphical installer. - The installer checks for all the prerequisite components before installation.

Web-based Admin Console	- Allows IT administrators to access Wyse WSM from any browser. - Control the entire installation from a central location. - Dramatically simplifies administration, saving IT time and user downtime. - Wizards to guide the user through specific tasks.
Operation System and Application Imaging Tools	- Imaging tool simplifies the process of creating an OS image for the specific hardware configuration and an application image for all hardware configurations. - All OS and application images are ready for deployment once created, no further modifications needed.
Application Subscription Management	Use flexible application deployment methods: - Auto-subscribed applications are ready for use when user logs in for the first time. - Manual subscriptions allow users the flexibility to use applications only when needed. - Mandatory subscriptions that cannot be unsubscribed by users.
Protected System Drive	- Allows administrators to protect the system drive from end user initiated updates. - Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device.

Software specifications continued

Wyse WSM continued

Operating System Streaming	- Wyse WSM provides an on-demand operating system to Wyse cloud PCs or diskless PCs on the network. - Innovative technology makes each Wyse cloud PC or diskless PC think there is a virtual hard disk attached to the device. - Only those bits needed for the normal device operation are sent in order to reduce network traffic. - Operating-system images can be shared across multiple devices, making management easier.
Flexible Boot Options	- Each device can boot from four operating system image assignments. - Administrators can assign or let users choose which operating system they want to boot. - First disk mode for the default OS image to boot from every time device starts up. - First available mode to boot from the first responding server in order to balance loads.
Application License Management and Metering	- Wyse WSM provides the infrastructure to collect information about the application license-usage across the enterprise. This information allows IT organizations to save money associated with application licenses. - Licenses can be stored for all the applications deployed. It also enforces license compliance. - Types of licenses that can be controlled include: 1) Time-based licenses (valid for X days). 2) Number of concurrent users.

Modes of Operation	Wyse WSM allows administrators to choose modes of operation for the OS: - Private Mode – for administration of operating system images. - Shared Mode – has two additional modes of normal operation: 1) Volatile – returns desktop to pristine state after a device reboot. 2) Persistent – remembers any user settings after a device reboot.
Remote Servers for Scalability	- IT administrators can deploy multiple remote servers to improve scalability of the overall solution. - Central management of remote servers allows easy deployment of the solution across different geographic locations.
Comprehensive Reporting	- Easy ad-hoc reporting based on flexible parameters. - Reports are delivered through HTML, giving you the flexibility to output in any form. - License-metering reports can be used to make proactive purchasing decisions. - License-audit reports can be used for compliance purposes.
Desktop Compatibility	Wyse WSM works with Wyse C00LE, V00LE, R00L/E, Z00D and X00C family cloud PCs as well as with existing thin clients, diskless PCs and virtual-desktop systems.

Software specifications

Wyse Enhanced SUSE Linux

Firmware features	Wyse Enhanced SUSE Linux based on SLED 11 SP1 Automatic Central Configuration (text-based INI's) Automatic Upgrades (FTP, HTTP, HTTPS) Secure, read-only file system with lockdown abilities Wyse RDP client (RDP7 Compatible) Citrix Online Plugin 11.2 client (ICA 11.2) w/ HDX Mediastream, Plug-n-Play, Realtime, etc. VMware View Open Client compatible with View 4.5 Ericom PowerTerm InterConnect Terminal Emulation Ericom PowerTerm WebConnect Cisco, Juniper, Nortel, IPSEC VPN Support (Add-ons) Local/Remote Printing support (CUPS, LPR/LPD, Samba, ThinPrint,etc) Web-based applications (Firefox, Flash, JAVA,etc) XDMCP SSH
Server OS Infrastructure Support	Citrix XenApp / Citrix Presentation Server Citrix XenDesktop VMware View Microsoft Windows Terminal Server 2003 & 2008
Keyboard language support	100+ Keyboard Layouts supported locally (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish)
Management	Automatic, "hands-off" configuration and upgrading of thin clients without the need for device management software. Optionally, administrators can choose to integrate with Wyse Device Manager (WDM) for more hands-on control: - Complete image upgrade - Wake terminal remotely (Wake-on LAN) - Remote screen shadowing of entire desktop (VNC) - Asset management and reporting

Wireless support	WPA Personal, WPA2 Personal, WPA Enterprise WPA Enterprise Authentication support PEAP/TLS: PAP/MSCHAP/MSCHAPV2 support
Wyse TCX Suite	Advanced support for innovative Wyse TCX Suite virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring: - Multimedia acceleration - the power to run rich multimedia files formats ultilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server. - Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor. - USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control. - Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise. - Flash acceleration - helps users of thin clients to experience improved Flash performance.
Wyse Virtual Desktop Accelerator	Wyse Virtual Desktop Accelerator Delivers the best user experience for the allocated network bandwidth. Wyse Virtual Desktop Accelerator neutralizes the effects of network latency and packet loss, making cloud client computing more suitable for more remote-site, branch, or field-based users - and boosts RDP and ICA up to 20 times on networks with latencies up to and exceeding 300ms and at least 768kbps bandwidth.

Software specifications

Microsoft Windows Embedded Standard 2009

Firmware features	Microsoft Windows Embedded Standard 2009 Microsoft Internet Explorer 8.0 resident: HTML, JavaScript, XML, Active X Sun JRE, Media Player, Citrix Web Interface RDP 7.0 resident Citrix Online Plugin 11.2 resident (ICA 11.2) VMware View 4.0.1 client resident Ericom PowerTerm InterConnect Terminal Emulation Ericom PowerTerm WebConnect client Windows Media Player 11, .NET 3.5
Server OS Infrastructure Support	Citrix XenApp / Citrix Presentation Server Citrix XenDesktop VMware View Ericom PowerTerm WebConnect Microsoft Windows Terminal Server 2003 & 2008
Application Framework	.Net 3.5
Security	File Based Write Filter (FBWF) Microsoft Baseline Security Analyzer (MBSA)
Set-up and Configuration	Boot from local flash Microsoft Windows WES7 user interface languages: U.S, Optional add-ons
Keyboard language support	U.S. English (standard), French, German, Spanish, U.K. English, 40 other languages included
Protocol Support	TCP/IP, DNS, DHCP, PXE
Management	Remote management, configuration, and upgrades through Wyse Device Manager Complete image upgrade Wake terminal remotely (Wake-on LAN) Terminal configuration (IP information, name, etc.) Remote screen shadowing of entire desktop (Wyse Remote Shadow) Reporting, Asset management / SMS / Altiris Native WEDM support for management via SCCM*

Wireless support	802.11 a/b/g/n** support with external wireless adapter or internal wireless adapter option WPA-2, WEP, WPA wireless authentication PEAP-GTC wireless authentication protocol with optional Juniper Odyssey Client Supports PC-Card wireless adapters from: Cisco, D-Link, Netgear, US Robotics, Trendware**
Plug-ins	Adobe Flash Player Adobe Shockwave Microsoft Silverlight
Wyse TCX Suite	Advanced support for innovative Wyse TCX Suite of virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring: - Multimedia acceleration – the power to run rich multimedia files formats ultilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server. - Multi-display – ensures that windows and dialogue boxes behave the way users expect when using more than one monitor. - USB Virtualization – makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control. - Bi-directional sound – enables virtual desktops and applications to receive and transmit high quality audio without compromise. - Flash acceleration – helps users of thin clients to experience improved Flash performance.
Wyse Virtual Desktop Accelerator	Neutralizes the effects of network latency and packet loss, making 'thin' more suitable for more remote-site, branch, or field-based users by boosting RDP and ICA up to 20 times on networks with latencies up to and exceeding 300ms and at least 768kbps bandwidth.

* WES 2009 support for SCCM-WEDM will be available in April 2012.
** requires hardware support

Software specifications

Microsoft Windows Embedded Standard 7

Firmware features	Microsoft Windows Embedded Standard 7 (WES7) Microsoft Internet Explorer 8.0 resident: HTML, JavaScript, XML, Citrix Web Interface Microsoft RDP 6.1 client (Protocol 7.1 Supported) with RemoteFX technology Citrix Online Plugin 12 resident (ICA 12) with HDX Citrix XenDesktop VMware View 4.6 client resident Ericom PowerTerm InterConnect Terminal Emulation Windows Media Player 12
Server OS Infrastructure Support	Citrix XenApp / Citrix Presentation Server Citrix XenDesktop VMware View Microsoft Windows Terminal Server 2003 & 2008 R2 MSFT VDI
Security	File Based Write Filter (FBWF)
Set-up and Configuration	Boot from local flash Microsoft Windows WES7 user interface languages: U.S, Optional add-ons
Keyboard language support	U.S. English (standard), French, German, Spanish, U.K. English, 40 other languages included
Protocol Support	TCP/IP, DNS, DHCP, PXE
Management	Auto-configuration with Wyse Configuration Manager Remote management, configuration, and upgrades through Wyse Device Manager Complete image upgrade Terminal configuration (IP information, name, etc.) Reporting, Asset management Simple USB imaging solution with Wyse USB Firmware Tool Native WEDM support for management via SCCM

Wireless support	802.11 a/b/g/n* support with external wireless adapter or internal wireless adapter option WPA-2, WEP, WPA wireless authentication PEAP-GTC wireless authentication protocol with optional Juniper Odyssey Client Supports PC-Card wireless adapters* from: Cisco, D-Link, Netgear, US Robotics, Trendware
Plug-ins	Adobe Flash Player Microsoft Silverlight
Wyse TCX Suite	Advanced support for innovative Wyse TCX Suite virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring: - Multimedia acceleration - the power to run rich multimedia files formats utilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server. - Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor. - USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control. - Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise. - Flash acceleration - helps users of thin clients to experience improved Flash performance.
Wyse Virtual Desktop Accelerator	Neutralizes the effects of network latency and packet loss, making 'thin' more suitable for more remote-site, branch, or field-based users by boosting RDP and ICA up to 20 times on networks with latencies up to and exceeding 300ms and at least 768kbps bandwidth.

*requires hardware support

Contact Wyse

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Wyse Support Portal provides a fast and accurate way to communicate interactively with Wyse Customer Support, and helps us respond to your requests more quickly.

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Wyse offers cloud client computing sales, service and support expertise around the globe. Click for contact details.

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Wyse X class C family mobile cloud clients

Secure mobile computing. Without compromise.

With the compact Wyse X class C family mobile cloud clients, you can take the benefits of Wyse Cloud Client computing with you wherever you go. Deploying secure, accessible and manageable laptops has never been easier – as dependant on the model – user data is either stored on central servers or locally on a HDD for offline working.

Powered by Intel Atom Z520 1.33 GHz processors these compact, high performance mobile cloud clients allow more users than ever before to gain secure access to corporate networks when and wherever they need to.

They're optimized for Citrix XenApp, Citrix XenDesktop, Microsoft Terminal Server and VMware View environments - and are available across a range of operating systems: Wyse Enhanced SUSE Linux Enterprise, Microsoft Windows XP Embedded, Windows Embedded Standard 2009 & 7 and Wyse WSM.

Compact high performance mobile cloud clients.

Wyse X class C family mobile cloud clients are packed with features that would put some fat-laptops to shame. Busy mobile workers and traditional 'road-warriors' alike will appreciate their compact slim profile, light weight, crisp LED-backlit display and long-lasting 8 hour battery.

* Camera and bluetooth option are currently not supported on X50c.

At a glance

Performance
New generation Intel Atom Z520 1.33GHz processor delivering high performance with low power requirements (15 watts).

Ultra-mobile
Slim, compact design weighing just 3.2lb that's ideal for busy mobile workers and classic 'road-warriors' alike.

Rich user connectivity
Buit-in webcam*, integrated wireless b/g/n, Buetooth 2.1* and support for 3G cards provide everything needed for rich user interactivity, flexible connectvity and secure mobile access.

Green
Draws under 15 watts of power. Small form-factor reduces the impact of manufacturing and end-of-life disposal on the environment.

Virtualization
Users benefit from built-in support for the Wyse TCX Suite of user experience optimizations created to deliver the best user experience over virtualized desktop environments.

Management
Features Wyse Device Manager (workgroup edition).

Wyse Enhanced SUSE Linux
Secure, flexible and market-leading Linux combined with Wyse innovations in management and user experience.

OS and Application Provisioning
Full integration with Wyse WSM Cloud PC provisioning software with the X00c.

Microsoft Windows Embedded Standard 2009 and 7
Take advantage of the power of Windows Embedded Standard 2009 and the rich user experience of Windows Embedded Standard 7.

Specification

Wyse X50c, X90cw and X90c7 mobile thin clients and X00c mobile cloud PC

Processors	Intel Atom Z520 1.33GHz
Memory	X50c: Wyse Enhanced SUSE Linux: 1GB Flash / 1GB RAM X90cw: Windows Embedded Standard 2009: 2GB Flash / 1GB RAM and up to 4GB Flash / 2GB RAM X90c7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM X00c for WSM: 160GB HDD / 2GB RAM
I/O peripheral support	One VGA port 15-pin D-sub for external monitor Three USB 2.0 ports Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage One Mic In One Line Out Built-in 1.3 M Pixel Camera and Microphone* 3G capable
Keyboard	US, US international, UK, French, German
Pointing Device	Touchpad
Networking	10/100Base-T Fast Ethernet (RJ-45) Integrated wireless 802.11 b/g/n
Factory options	Bluetooth for connection to selected mobile phones*
Display	11.6" WXGA 1366 x 768 LED backlight
Audio	Output: 1/8-inch mini jack, full 16 bit stereo Input: 1/8-inch mini jack, 8 bit microphone
Speakers	2 internal stereo speakers
Physical characteristics	Width: 11.42 inches (290mm) Depth: 8.23 inches (209mm) Height: 1.39-1.25 inches (26.4~31.7mm)
Weight	3.2 lbs. (1.45kg) with battery
Device Security	Built-in Kensington security slot (cable sold separately)
Battery	6-cell Li-Ion battery (5200mAh) Up to 8 hours autonomy
Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star V5.0 compliant power supply Average power usage with under 15 Watts 19V/65W AC Adapter
Temperature Range	50° to 104° F (10° to 40° C)
Humidity	20% to 80% condensing 10% to 95% non-condensing
Safety Certifications	Safety: UL/IEC 60950-1, TUV EMC: CE (EN 55022, EN 55024), FCC 15B) Wireless: FCC (Part 15C), CE (EN 300 328, EN 301 489) Directive 1999/5/EC Environment: RoHS, WEEE
Warranty	One-year limited warranty, 6 months battery warranty Visit our web site for WyseChoice extensions and upgrades

* Camera and bluetooth option are currently not supported on X50c.

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http://support.wyse.com/selfservice.html

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Wyse® X class™

High performance mobile thin client.

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Wyse X class m family mobile thin clients

Anywhere Access to Virtual Desktops.

The Wyse X class m family is the next-generation 14" mobile thin client, bringing high performance, HD multimedia capabilities, and leading security to the mobile worker.

The Wyse X class m family delivers a combination of performance, connectivity, and ease of use never before seen in a thin client. The device is available with a dual core AMD G-T56N 1.65 GHz processor with AMD Radeon™ HD 6320 graphics.

The Wyse X class m family also includes SuperSpeed USB 3.0 connectivity, enabling the newest peripherals and speeds up to 10 times faster than USB 2.0. The Wyse X class m family offers enterprises an advanced, highly reliable, and secure device that seamlessly connects to existing IT infrastructures and delivers access to the most advanced Web browser and media player capabilities in a virtual client. These devices are optimized and certified for Citrix XenApp, Citrix XenDesktop, Microsoft Terminal Server and Hyper-V, and VMware View environments.

Ease of use: It's the thin client that does it all, without making you do it all.

The new next-generation Wyse X class m family mobile thin client powerhouse. It features Wyse Enhanced SUSE Linux, Windows Embedded Standard 2009 and Windows Embedded Standard 7, a crisp 14" LED backlit display and a Dual Core high performance and graphics-combined CPU – delivering excellent HD multimedia capabilities, as well as advanced SuperSpeed USB 3.0 connectivity.

At a glance

Performance
Featuring a dual core 1.65 GHz Processor with AMD Radeon™ HD 6320 Graphics specifically designed for excellent mobile computing and graphics.

Rich user connectivity
Provides everything needed for rich user interactivity, flexible connectvity and secure mobile access with buit-in webcam,dual band wireless a/b/g/n, optional smart card support, support for 3G/4G cards as well as SuperSpeed USB 3.0.

Virtualization
Wyse X class mobile thin clients can be enhanced by the Wyse TCX Suite of user experience optimizations.

Management
Features Wyse Device Manager (workgroup edition).

Wyse Enhanced SUSE Linux
Secure, flexible and market-leading Linux combined with Wyse innovations in management and user experience.

Microsoft Windows Embedded Standard 2009 and 7
Take advantage of the power of Windows Embedded Standard 2009 and the rich user experience of Windows Embedded Standard 7.

Specification

Wyse X50m, X90mw, X90m7 mobile thin clients and X00m mobile cloud PC

Processor	Dual core AMD G-T56N 1.65 GHz Processor with AMD Radeon™ HD 6320 Graphics
Memory	X50m: Wyse Enhanced SUSE Linux: 2GB Flash / 2GB RAM DDR3 1333MHz X90mw: Windows Embedded Standard 2009: 2GB Flash / 2GB RAM DDR3 1333MHz X90m7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM DDR3 1333MHz X00m for WSM: 128GB SSD / 2GB RAM DDR3 1333MHz
I/O peripheral support	One VGA port One DisplayPort One USB 2.0 port and two USB 3.0 ports Media card reader slot for additional storage One Mic In / One Line Out Built-in 1.3 M Pixel Camera and Microphone ExpressCard slot (factory option) 3G/4G Capable (PCIe slot available) Smart Card Reader (Factory installed Configuration Option)
Networking	10/100/1000 Mbps Gigabit Ethernet Integrated wireless 802.11 a/b/g/n Dual Band (2.4 Ghz and 5Ghz)
Display	14" WXGA 1366 x 768 LED backlight
Audio	Output: 1/8-inch mini jack, full 16 bit stereo, Digital audio out Input: 1/8-inch mini jack, 8 bit microphone
Speakers	Two internal stereo speakers
Physical characteristics	Width: 9.42 inches (239.2mm) Depth: 13.5 inches (341.6mm) Height: 1.14 inches (28.9-35.5mm)
Weight	4.0lbs. (1.831kg)
Device Security	Built-in Kensington security slot (cable sold separately)
Keyboard and mouse	Keyboard / Touchpad
Keyboard layouts supplied	US, US international, UK, French, German
Battery	6-cell Li-Ion battery (5200mAh)
Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star V5.0 compliant power supply 19V/65W AC Adapter
Temperature Range	50° to 104° F (10° to 40° C)
Humidity	20% to 80% condensing 10% to 95% non-condensing
Safety Certifications	Safety: UL/IEC 60950-1, TUV EMC: CE (EN 55022, EN 55024), FCC 15B) Wireless: FCC (Part 15C), CE (EN 300 328, EN 301 489) Directive 1999/5/EC Environment: RoHS, WEEE
Warranty	One-year limited warranty, 6 months battery warranty Visit our web site for WyseChoice extensions and upgrades

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